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Date:

OPERATION AND MAINTENANCE PLAN **POND - EMBANKMENT**

Embankment Ponds are designed to impound water for agricultural use. The estimated life span of the installation is at least 20 years. The life of this conservation practice can be assured and usually increased by developing and carrying out a good inspection and maintenance program including the following requirements:

NOTE: This Plan may be included in Part 2 of the Operation and Maintenance Manual required by the New Jersey State Dam Safety Section.

GENERAL REQUIREMENTS

- As a minimum, inspect embankment ponds annually and after major storm events. Embankment Ponds that are subject to State Dam Safety Regulations shall be inspected every four years by a State licensed professional engineer and by the owner in each intervening year.
- Inspect the spillways and control gates for proper operation and for their ability to maintain the water level to design elevations.
- Immediately remove any blockage or obstructions of spillways, trash racks and pipelines.
- Inspect earthfills for signs of erosion, settlement, cracks, sloughing, etc. Consult a licensed professional engineer to investigate cause prior to taking corrective actions.
- Inspect embankment and toe areas for signs of seepage. Consult a licensed professional engineer prior to taking corrective actions.
- Inspect top of dam for ruts or depressions. Fill immediately.
- Repair spalls, cracks, and weathered areas in concrete surfaces.
- Repair or replace rusted or damaged metal appurtenances. Paint to protect surfaces.
- Operate gates or drain valves annually. Lubricate or otherwise maintain according to manufacture's recommendations.
- Inspect outlet areas for stability. Correct any scour or erosion.
- Maintain vigorous growth of desirable vegetative coverings. This includes reseeding, fertilization, and controlled application of herbicides when necessary. Embankment and auxiliary spillway areas shall be mowed annually.

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- If fences and gates are installed, they shall be maintained to prevent unauthorized human or livestock entry.
- Remove any debris or sediment that accumulates in the pond and immediately upstream or downstream from the pond.
- Make sure all structure drains are functional and soil is not being transported through the drainage system. Repair if not functioning. The screens and/or rodent guards shall also be kept in place.
- Eradicate or otherwise remove all rodents or burrowing animals. Immediately repair any damage caused by their activity.
- Immediately repair any vandalism, vehicular or livestock damage to the structure, earthen areas surrounding the structure, or any appurtenances.
- Remove woody vegetation from embankments and auxiliary spillways.
- Inspect embankment for signs of wave erosion. Consult a licensed professional engineer prior to taking corrective actions.